

REMARKS

Claims 1, 2, 6, 7, 8, 12, 13, 14, 18, 19, 20, 21 and 25 are pending. Claims 3-5, 9-11, 15-17 and 22-24 have been canceled. Claims 1, 7, 13 and 19 have been amended to clarify the subject matter. In particular, claim 1 has been amended to incorporate the features of dependent claims 3, 4 and 5. In a similar manner, claims 7, 13 and 19 have been amended to incorporate dependent features 9-11, 15-17 and 22-24 respectively. No new matter has been added. The amendments do not raise new issue because the amendments are based on dependent claims.

Claim Rejection 35 USC 102

Claims 1-25 have been rejected under 35 USC 102(b) as being anticipated by Kawahara et al. Applicants respectfully submit that the Kawahara reference does not disclose, teach or suggest the claimed invention for the following reasons.

Claim 1 has been amended to incorporate the features of dependent claims 3, 4 and 5. Amended claim 1 recites:

1. (Currently Amended) An apparatus comprising:

a charge pump having a capacity that is preset to a particular value; and
a measuring circuit including a voltage sensor to sense a voltage at an input and output of the charge pump and a temperature sensor to measure the temperature of the charge pump, wherein the measuring circuit measures an actual capacity of the charge pump and to reset the capacity of the charge pump to a value based on the measured capacity. (Emphasis Added)

Applicants submit that the Kawahara reference does not teach or suggest the above bolded features for the following reasons.

For example, the sense and latch circuit in Fig. 1 of the Kawahara reference is coupled to an output of a charge pump. However, the circuit does not feedback any signal back to the charge pump to reset the charge pump. That is, the circuit is not configured to "measure an actual capacity of the charge pump and to reset the capacity of the charge pump" as recited in claim 1.

Furthermore, Fig. 9 of the Kawahara reference shows the temperature dependence of reference voltage VPR of the band-gap circuit of Fig. 6a. Although the output of the band gap

circuit responds to temperature changes, the circuit does not feedback any of the changes back to the charge pump to reset the charge pump circuit. That is, the circuit is **not** a “temperature sensor to measure the temperature of the charge pump ... to **reset** the capacity of the charge pump” as recited in amended claim 1 of the present invention.

Moreover, the band-gap circuit of Fig. 6a of Kawahara receives an output signal VPR from the charge pump and provides output voltage VRF. Although the circuit is coupled to the **output** of the charge pump circuit, it is **not** a “voltage sensor to sense a voltage at an **input and output** of the charge pump” as recited in amended claim 1. Moreover, the core of Fig. 6a does not “**reset the capacity of the charge pump**” as recited in amended claim 1. Again, this structure does **not** feedback any type of signal back to the charge pump to **reset** the charge pump. Thus, claim 1 is not anticipated by the Kawahara reference for at least these reasons.

Claims 2 and 6 depend from claim 1. Accordingly, claims 2 and 6 should be allowable for at least the same reasons as claim 1.

Claims 7, 13 and 19 have been amended to recite a similar feature as the above bolded feature of claim 1. Claims 7, 13 and 19, and respective dependent claims, should be allowable for at least the same reasons as claim 1.

In view of the above remarks, applicants respectfully request withdrawal of the rejections and allowance of the application.


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